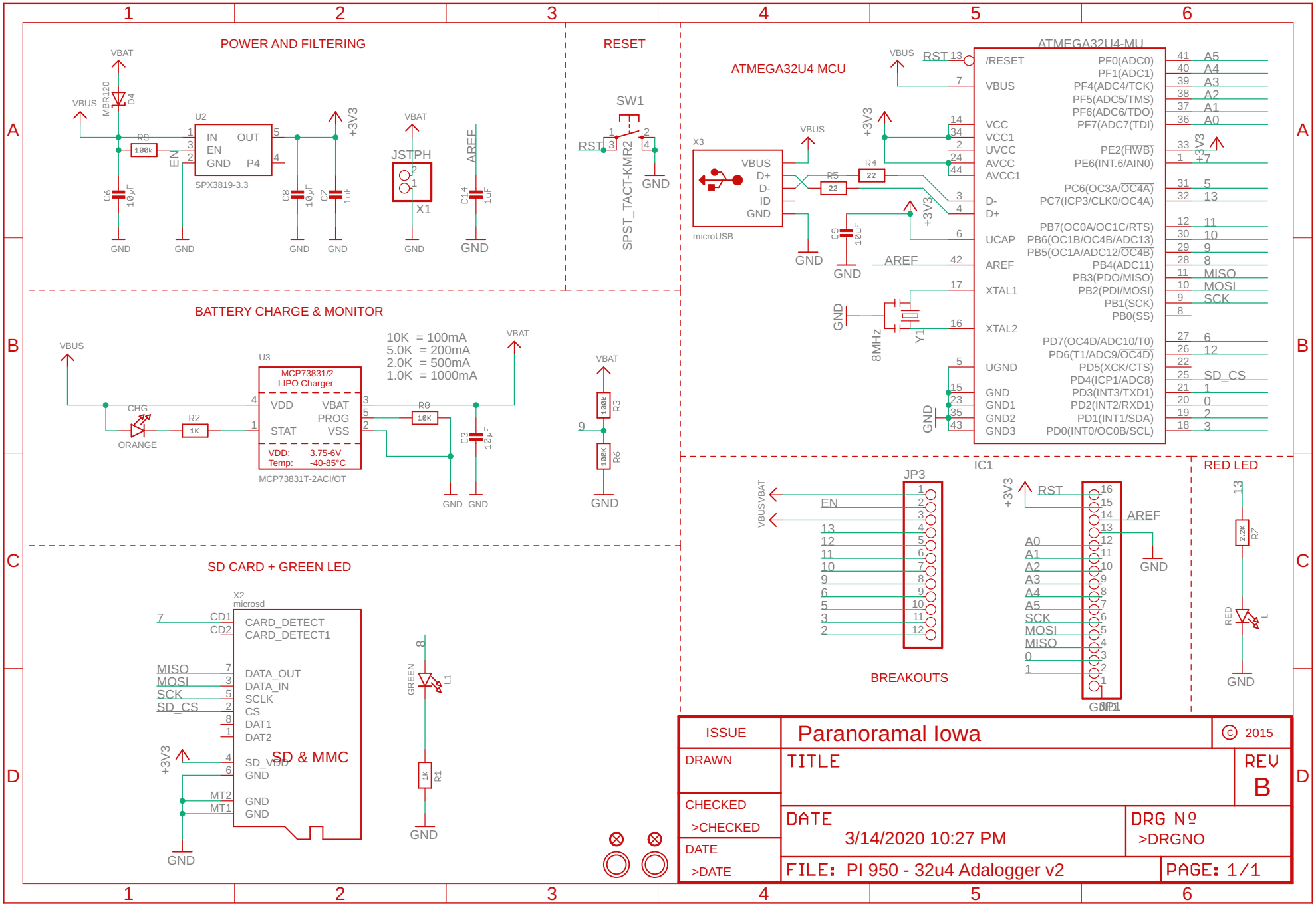
POWER AND FILTERING
VBAT
VBUS
MBR120
D4
R9
100k
EN
U2
IN
OUT
EN
GND
P4
SPX3819-3.3
C6
10µF
C8
10µF
C7
1uF
+3V3
JSTPH
X1
AREF
C14
1uF
GND
RESET
SW1
RST
SPST_TACT-KMR2
ATMEGA32U4 MCU
ATMEGA32U4-MU
X3
microUSB
VBUS
D+
D-
ID
GND
R5
22
R4
22
C9
10uF
AREF
XTAL1
XTAL2
Y1
8MHz
/RESET
VCC
VCC1
UVCC
AVCC
AVCC1
D-
D+
UCAP
UGND
PF0(ADC0)
PF1(ADC1)
PF4(ADC4/TCK)
PF5(ADC5/TMS)
PF6(ADC6/TDO)
PF7(ADC7/TDI)
PE2(HWB)
PE6(INT.6/AIN0)
PC6(OC3A/OC4A)
PC7(ICP3/CLK0/OC4A)
PB7(OC0A/OC1C/RTS)
PB6(OC1B/OC4B/ADC13)
PB5(OC1A/ADC12/OC4B)
PB4(ADC11)
PB3(PDO/MISO)
PB2(PDI/MOSI)
PB1(SCK)
PB0(SS)
PD7(OC4D/ADC10/T0)
PD6(T1/ADC9/OC4D)
PD5(XCK/CTS)
PD4(ICP1/ADC8)
PD3(INT3/TXD1)
PD2(INT2/RXD1)
PD1(INT1/SDA)
PD0(INT0/OC0B/SCL)
A5
A4
A3
A2
A1
A0
MISO
MOSI
SCK
SD_CS
BATTERY CHARGE & MONITOR
10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA
U3
MCP73831/2
LIPO Charger
VDD
VBAT
PROG
STAT
VSS
VDD: 3.75-6V
Temp: -40-85°C
MCP73831T-2ACI/OT
CHG
ORANGE
R2
1K
R8
10K
C3
10µF
R3
100k
R6
100k
SD CARD + GREEN LED
X2
microsd
CD1
CD2
CARD_DETECT
CARD_DETECT1
DATA_OUT
DATA_IN
SCLK
CS
DAT1
DAT2
SD_VDD
GND
MT2
MT1
SD & MMC
GREEN
L1
R1
1K
BREAKOUTS
JP3
VBUSVBAT
EN
IC1
RST
AREF
A0
A1
A2
A3
A4
A5
SCK
MOSI
MISO
JP1
RED LED
R7
2.2K
RED
L
ISSUE
DRAWN
CHECKED
>CHECKED
DATE
>DATE
Paranoramal Iowa
© 2015
TITLE
REV
B
DATE
3/14/2020 10:27 PM
DRG Nº
>DRGNO
FILE: PI 950 - 32u4 Adalogger v2
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